

AMENDMENTS

The following listing of Claims will replace all prior versions and listing of claims in the application.

CLAIM LISTING:

1. (currently amended) A system for color measurement for a color hard copy apparatus, having a print media transport path, comprising:
 - an illumination source adjacent to said path;
 - a plurality of photodetectors adjacent to said path; and
 - a printing engine operable to form test strips each of a single color ~~formed~~ on a sheet of media traveling said path, each strip having a geometric configuration such that each of said photodetectors detects substantially discrete regions of that strip, the printing engine being further operable to generate at least one correction factor based on comparisons of measured spectral characteristics of the color strips with intended spectral characteristics of the color strips.
2. (original) The system as set forth in claim 1, further comprising:
said photodetectors having predetermined spectral responses.
3. (original) The system as set forth in claim 1 wherein the illumination source is broadband.
4. (original) The system as set forth in claim 1, further comprising:
a white calibration target mounted within the field of view of all of said sensors.
5. (currently amended) A color hard copy apparatus that is operable, ~~having a mechanism~~ to generate color strips, each of an intended uniform color on media transported along a predetermined path through said apparatus, comprising:

adjacent said path downstream of the mechanism, a broad band illumination source mounted for illuminating said color strips; ~~and~~

adjacent said path downstream of the mechanism, an array of sensors, each of the sensors mounted for detecting color properties of a unique one of discrete areas of each of the color strips; and

a printing engine operable to generate at least one correction factor based on comparisons of detected color properties of the color strips with intended color properties of the color strips.

6. (original) The apparatus as set forth in claim 5, comprising:
said sensors having predetermined spectral responses.

7. (original) The apparatus as set forth in claim 5 wherein the illumination source is broadband.

8. (original) The apparatus as set forth in claim 5, further comprising:
a white calibration target mounted within the field of view of all of said sensors.

9. (currently amended) A method for measuring actual color produced by a color hard copy device comprising:

a) illuminating with broad band light, a region of a color pattern generated by the device, the color pattern having a first color;

b) sensing actual color characteristics of discrete areas of said region using each of a plurality of sensors for the sensing of a unique one of the discrete areas; and

c) ~~storing data representative of said color characteristics.~~ generating at least one correction factor for a printing engine based on comparisons of sensed color characteristics of the discrete areas of the color pattern region with intended spectral characteristics of the color pattern region.

10. (original) The method as set forth in claim 9, comprising the further steps of:
printing a plurality of intended colors in addition to said first color with said device, and

repeating steps a)-c) for each of the plurality of intended colors other than said first color.

11. (original) The method as set forth in claim 9, comprising the further step of: prior to steps a) - c), calibrating each of said sensors using a white calibration target.

12. (currently amended) A hard copy apparatus, comprising:

a printing engine operable to form color strips on a print medium, each of the color strips of an intended uniform color; ~~and~~

an array of sensors located downstream from the printing engine along a direction of travel of the printing medium, the array oriented along an axis generally parallel to an orientation of the color strips, wherein as each of the color strips passes within view of the array, each of the sensors includes a photodetector and is positioned to ~~allow~~ measure a spectral characteristic ~~detection~~ of a unique one of a plurality of substantially discrete regions on each of the color strips; and

means for obtaining correction factors based on differences between measured spectral characteristics of the color strips and intended spectral characteristics of the color strips.

13. (previously presented) The hardcopy apparatus of Claim 12, further comprising an illumination source positioned to project incident light to illuminate the color strips as color strips pass within view of the array.

14. (cancelled)

15. (cancelled)

16. (cancelled)

17. (currently amended) A color measurement system for use with color strips formed on a print medium, with each of the color strips of a single color, comprising:

an array of photodetectors oriented along an axis generally parallel to an orientation of the color strips so that as one of the color strips passes within view of the array, with each of the photodetectors positioned to measure a spectral characteristic of a unique one of a plurality of substantially discrete regions of the one of the color strips; and

a means for determining differences, if any, between ~~comparing~~ measured spectral characteristics of the color strips with intended spectral characteristics of the color strips; and

a means for obtaining correction factors based on the determined differences, if any, the correction factors for use by a printing engine that formed the color strips.

18. (cancelled)

19. (currently amended) A method, comprising:

forming a color strip of a single color on a print medium; and

using each photodetector ~~photodetector~~, of an array of photodetectors oriented along an axis generally parallel to an orientation of the color strip, to measure a spectral characteristic of a one of a plurality of substantially discrete regions, corresponding to the ~~photodetector~~ photodetector, of the color strip, as the color strip passes within view of the array;

comparing a measured spectral characteristic of the color strip with an intended spectral characteristic of the color strip; and

generating a correction factor based on the comparing for use by a printing engine that formed the color strip.

20. (cancelled)

21. (cancelled)